

**BOBBY JINDAL**  
GOVERNOR



**HAROLD LEGGETT, Ph.D.**  
SECRETARY

**State of Louisiana**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**ENVIRONMENTAL SERVICES**

Certified Mail No.

Activity No.: PER20080001  
Agency Interest No. 4604

Robert L. Hicks  
Southeast Region Director  
Entergy Louisiana, LLC  
L-NORT-3A  
446 North Blvd.  
Baton Rouge, LA 70802

RE: Part 70 Operating Permit, Entergy Louisiana, LLC  
Buras Electric Generating Plant, Buras, Plaquemines Parish, Louisiana

Dear Mr. Hicks:

This is to inform you that the permit renewal and minor modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_ of \_\_\_\_\_, 2014, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2009.

Permit No.: 2240-00032-V1

Sincerely,

Cheryl Sonnier Nolan  
Assistant Secretary  
CSN:tam  
c: EPA Region VI

**PUBLIC NOTICE**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)**  
**ENTERGY LOUISIANA, LLC, BURAS ELECTRICAL GENERATING PLANT**  
**PROPOSED PART 70 AIR OPERATING PERMIT RENEWAL/MINOR MODIFICATION**

The LDEQ, Office of Environmental Services, is accepting written comments on the Part 70 air operating permit renewal and minor modification for Entergy Louisiana, LLC, 446 North Blvd., L-NORT-3A, Baton Rouge, LA 70802 for the Buras Electrical Generating Plant. **The facility is located at 1617 River Road, L-NIN-6, Buras, Plaquemines Parish.**

Entergy Louisiana, LLC requested a Part 70 air operating permit renewal and minor modification. Buras Electric Generating Plant is a fossil fueled electric generating facility. The facility consists of a turbine and a No. 2 fuel oil storage tank. The turbine burns natural gas and No. 2 fuel oil. Increases or decreases in emissions are due to updated AP-42 emission factors and not a project change. The Buras Electric Generating Plant currently operates under Permit No. 2440-0032-V0, issued May 24, 2004.

Estimated emissions in tons per year are as follows:

Pollutant	Before	After	Change
PM <sub>10</sub>	78.55	14.59	- 63.96
SO <sub>2</sub>	650.30	602.61	- 47.69
NO <sub>x</sub>	898.83	1049.92	+ 151.09
CO	149.60	112.18	- 37.42
VOC	32.73	2.94	- 29.79
TSP	78.55	14.59	- 63.96

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Tuesday, April 28, 2009.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit application, proposed part 70 air operating permit renewal and minor modification, and statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5<sup>th</sup> Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The**

available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at [www.deq.louisiana.gov](http://www.deq.louisiana.gov).

An additional copy may be reviewed at the Plaquemines Parish Library, Belle Chase Branch, 8442 Highway 23, Belle Chase, LA 70037.

Inquiries or requests for additional information regarding this permit action should be directed to Tommy Menuet, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3052.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at [deqmaillistrequest@la.gov](mailto:deqmaillistrequest@la.gov) or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

**Permit public notices including electronic access to the proposed permit and statement of basis** can be viewed at the LDEQ permits public notice webpage at [www.deq.louisiana.gov/apps/pubNotice/default.asp](http://www.deq.louisiana.gov/apps/pubNotice/default.asp) and general information related to the public participation in permitting activities can be viewed at [www.deq.louisiana.gov/portal/tabid/2198/Default.aspx](http://www.deq.louisiana.gov/portal/tabid/2198/Default.aspx).

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at [http://www.doa.louisiana.gov/oes/listservpage/ldeq\\_pn\\_listserv.htm](http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm).

**All correspondence should specify AI Number 4604, Permit Number 2240-00032-V1, and Activity Number PER20080001.**

**Scheduled Publication Date: March 24, 2009**

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Buras Electric Generating Plant**  
**Agency Interest No.: 4604**  
**Entergy Louisiana LLC**  
**Buras, Plaquemines Parish, Louisiana**

**I. Background**

Buras Electric Generating Plant is an existing electric generating facility. The Entergy Louisiana, LLC, Buras Electric Generating Plant, currently operates under Permit No. 2240-00032-V0, issued May 24, 2004.

This is the Part 70 operating permit for the facility.

**II. Origin**

A permit application and Emission Inventory Questionnaire were submitted by Entergy Louisiana, LLC on November 20, 2008 requesting a Part 70 operating permit renewal. Additional information dated January 7, 2008 was also received.

**III. Description**

Buras Electric Generating Plant is a fossil fueled electric generating facility. The facility consists of a turbine and a No. 2 fuel oil storage tank. The turbine burns natural gas and No. 2 fuel oil. Emissions from the turbine are permitted using an alternate operating scenario on a basis of 8760 hr/yr. Emissions were calculated for natural gas (SCN1) and No. 2 fuel oil (SCN2), both on an 8760 hr/yr basis, and the higher emission value of the corresponding pollutant was permitted. This procedure serves to permit the most conservative emission values and allows for operating flexibility.

Increases or decreases in emissions are due to updated AP-42 emission factors and not a project change. The new emissions factors were used in emission calculations using the same throughputs as the current permit. Therefore, PSD does not apply.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM <sub>10</sub>	78.55	14.59	- 63.96
SO <sub>2</sub>	650.30	602.61	- 47.69
NO <sub>x</sub>	898.83	1049.92	+ 151.09
CO	149.60	112.18	- 37.42
VOC *	32.73	2.94	- 29.79
TSP	78.55	14.59	- 63.96

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Buras Electric Generating Plant**  
**Agency Interest No.: 4604**  
**Entergy Louisiana LLC**  
**Buras, Plaquemines Parish, Louisiana**

**\*VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
1,3-Butadiene	-	0.019	+ 0.019
Acetaldehyde	-	0.050	+ 0.050
Acrolein	-	0.009	+ 0.009
Benzene	-	0.070	+ 0.070
Formaldehyde	-	0.970	+ 0.970
Naphthalene	-	0.040	+ 0.040
Polynuclear Aromatic Hydrocarbons	-	0.048	+0.048
Toluene	-	0.180	+ 0.180
Xylene (mixed isomers)	-	0.090	+0.090
Total		1.476	+ 1.476

Other VOC (TPY): 1.464

**Non-VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
Arsenic (and compounds)	-	0.013	+ 0.013
Beryllium (Table 51.1)	-	0.001	+ 0.001
Cadmium (and compounds)	-	0.006	+ 0.006
Chromium VI (and compounds)	-	0.013	+ 0.013
Lead compounds	-	0.020	+ 0.020
Manganese (and compounds)	-	0.940	+ 0.940
Mercury (and compounds)	-	0.001	+ 0.001
Nickel (and compounds)	-	0.005	+ 0.005
Selenium (and compounds)	-	0.030	+ 0.030
Total:	-	1.029	+ 1.029

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Buras Electric Generating Plant**  
**Agency Interest No.: 4604**  
**Entergy Louisiana LLC**  
**Buras, Plaquemines Parish, Louisiana**

**IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70 and the Louisiana Air Quality Regulations. Prevention of Significant Deterioration (PSD), New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP) do not apply.

This facility is a minor source of toxic air pollutants (TAPs) pursuant to LAC 33:III Chapter 5.

Increases or decreases in emissions are due to updated AP-42 emission factors and not a project change. The new emissions factors were used in emission calculations using the same throughputs as the current permit. Therefore, PSD does not apply.

**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in the <local paper>, <local town>, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

**VII. Effects on Ambient Air**

Emissions associated with the proposed renewal and modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Buras Electric Generating Plant**  
**Agency Interest No.: 4604**  
**Entergy Louisiana LLC**  
**Buras, Plaquemines Parish, Louisiana**

**VIII. General Condition XVII Activities**

Work Activity	Schedule	PM <sub>10</sub>	Emission Rates - tons			
			SO <sub>2</sub>	NO <sub>x</sub>	CO	VOC
NA						

**IX. Insignificant Activities**

ID No.:	Description	Citation
	Emergency Diesel Generator*	LAC 33:III.501.B.5.B.32
	Microwave Tower Propane Generator*	LAC 33:III.501.B.5.D
	250 Gallon Diesel Day Tank	LAC 33:III.501.B.5.A.3
	Propane Tank	LAC 33:III.501.B.5.A.3
	Lube Oil Storage Tanks	LAC 33:III.501.B.5.A.3
	800 Gallon Used Oil Storage Tanks	LAC 33:III.501.B.5.A.3
	Comfort Air Conditioning and Heating	LAC 33:III.501.B.5.B.17
	Equipment Repair and Painting	LAC 33:III.501.B.5.B.3
	55 Gallon Used Antifreeze Drum	LAC 33:III.501.B.5.A.2
	2,500 Gallon Distillate Tank	LAC 33:III.501.B.5.A.3
	550 Gallon Tote of Oil	LAC 33:III.501.B.5.A.3

\* These items currently qualify as insignificant activities. Any replacement of these items by new engines that are affected sources under either NSPS IIII or JJJJ, will require a permit modification and a removal of the sources from the insignificant activities list.

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Buras Electric Generating Plant  
 Agency Interest No.: 4604  
 Entergy Louisiana LLC  
 Buras, Plaquemines Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	LAC 33:III Chapter												
		5 <sup>▲</sup>	2	9	11	13	15	2103	2104*	2107	2113	2115	2116*	2123
UNF1	Entire Facility	1	1	1	1	1					1			
EQT 1	C8 – Unit 8 Combustion Turbine - Natural Gas and No. 2 Fuel Oil Fired	1			1	1								
SCN 1	Unit 8 Combustion Turbine - Natural Gas Fired	1			1	1								
SCN 2	Unit 8 Combustion Turbine - No. 2 Fuel Oil Fired	1			1	1	1							
EQT 3	T1 – Fuel Oil Storage Tank	1												

\* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

**KEY TO MATRIX**

- The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank = The regulations clearly do not apply to this type of emission source.



## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Buras Electric Generating Plant  
Agency Interest No.: 4604  
Entergy Louisiana LLC  
Buras, Plaquemines Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements																			
ID No.:	Description	40 CFR 60 NSPS								40 CFR 61				40 CFR 63 NESHAP				40 CFR	
		A	K	Ka	Kb	Dc	GG	KKK	III	A	J	M	A	HH	SS	VV	HHH	64	72
UNF1	Entire Facility	1								1		1							
EQT 1	C8 – Unit 8 Combustion Turbine - Natural Gas and No. 2 Fuel Oil Fired						3											3	3
SCN 1	Unit 8 Combustion Turbine - Natural Gas Fired						3											3	3
SCN 2	Unit 8 Combustion Turbine - No. 2 Fuel Oil Fired						3											3	3
EQT 3	T1 – Fuel Oil Storage Tank		2	2	2														

## KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Buras Electric Generating Plant  
 Agency Interest No.: 4604  
 Entergy Louisiana LLC  
 Buras, Plaquemines Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
UNF 1	Comprehensive Toxic Air Pollutant Emission Control Program (State Only) [LAC 33:III.Chapter 51]	DOES NOT APPLY. Facility is not a major source of toxic air pollutants (TAPs).
EQT 1	NSPS Subpart GG – Standards of Performance for Stationary Gas Turbines [40 CFR 60.330]	DOES NOT APPLY. Turbine was constructed before October 3, 1977, and has not been reconstructed or modified.
	Acid Rain Program [40 CFR 72]	DOES NOT APPLY. Commenced operation before November 15, 1990, and does not serve a generator with a nameplate capacity of greater than 25 MW. [40 CFR 72.6(b)(2)]
SCN 1	NSPS Subpart GG – Standards of Performance for Stationary Gas Turbines [40 CFR 60.330]	DOES NOT APPLY. Turbine was constructed before October 3, 1977, and has not been reconstructed or modified.
	Acid Rain Program [40 CFR 72]	DOES NOT APPLY. Commenced operation before November 15, 1990, and does not serve a generator with a nameplate capacity of greater than 25 MW. [40 CFR 72.6(b)(2)]
SCN 2	NSPS Subpart GG – Standards of Performance for Stationary Gas Turbines [40 CFR 60.330]	DOES NOT APPLY. Turbine was constructed before October 3, 1977, and has not been reconstructed or modified.
	Acid Rain Program [40 CFR 72]	DOES NOT APPLY. Commenced operation before November 15, 1990, and does not serve a generator with a nameplate capacity of greater than 25 MW. [40 CFR 72.6(b)(2)]

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Buras Electric Generating Plant  
 Agency Interest No.: 4604  
 Entergy Louisiana LLC  
 Buras, Plaquemines Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
EQT 3	NSPS Subpart K- Standards of Performance for Storage Vessels for Volatile Liquids [40 CFR 60.110]	EXEMPT. Tank constructed/modified prior to June 11, 1973.
	NSPS Subpart Ka- Standards of Performance for Storage Vessels for Volatile Liquids [40 CFR 60.110a]	
	NSPS Subpart Kb- Standards of Performance for Storage Vessels for Volatile Liquids [40 CFR 60.110b]	
EQT 1, SCN 1, SCN 2	Compliance Assurance Monitoring [40 CFR Part 64]	DOES NOT APPLY. There are no control devices at the Buras Electric Generating Plant.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

## 40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
  - 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];

## 40 CFR PART 70 GENERAL CONDITIONS

2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
  3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
  4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.  
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
  2. the date(s) analyses were performed;
  3. the company or entity that performed the analyses;
  4. the analytical techniques or methods used;
  5. the results of such analyses; and
  6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

**40 CFR PART 70 GENERAL CONDITIONS**

- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;

#### 40 CFR PART 70 GENERAL CONDITIONS

4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
5. changes in emissions would not qualify as a significant modification; and
6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).

1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
  - a. Report by June 30 to cover January through March
  - b. Report by September 30 to cover April through June
  - c. Report by December 31 to cover July through September
  - d. Report by March 31 to cover October through December
4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]

## 40 CFR PART 70 GENERAL CONDITIONS

- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.
- The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals. Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).



## LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
  
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
  
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated November 20, 2008. Additional information dated January 7, 2008 was also received.
  
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
  
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

## LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

## LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March
  2. Report by September 30 to cover April through June
  3. Report by December 31 to cover July through September
  4. Report by March 31 to cover October through December
- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
  2. Cause of noncompliance;
  3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
  4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
  5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:

- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
- B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
- C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
- D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services in accordance with LAC 33:I.Chapter 19.Facility Name and Ownership/Operator Changes Process.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
  2. Be less than the minimum emission rate (MER)
  3. Be scheduled daily, weekly, monthly, etc., or
  4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of the permit may be appealed to the secretary in writing pursuant to La. R.S. 30:2024(A) within 30 days from notice of the permit action. A request may be made to the secretary to suspend those provisions of the permit specifically appealed. The permit remains in effect to the extent that the secretary or assistant secretary does not elect to suspend the appealed provisions as requested or, at his discretion, other permit provisions as well. Construction cannot proceed, except as specifically approved by the secretary or

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

assistant secretary, until a final decision has been rendered on the appeal. A request for hearing must be sent to the Office of the Secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

- XIX. For Part 70 sources, certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 4604 Entergy Louisiana LLC - Buras Generating Plant  
 Activity Number: PER20080001  
 Permit Number: 2240-00032-V1  
 Air - Title V Regular Permit Renewal

Also Known As:	ID	Name	User Group	Start Date
	2240-00032	Entergy Louisiana LLC - Buras Generating Plant	CDS Number	08-05-2002
	720245590	Federal Tax ID	Federal Tax ID	11-20-1999
		815 Hwy 11 S (911 address change)	Multimedia	12-31-2005
		Entergy Louisiana LLC - Buras Generating Plant	Multimedia	12-31-2005
	17400	LP&L	TEMPO Merge	01-03-2001

Physical Location: 830 Hwy 23  
 Buras, LA 70041  
 Main FAX: 9856533447  
 Main Phone: 9856533445

Mailing Address: 1617 River Rd  
 Westwego, LA 70094

Location of Front Gate: 29° 21' 47" latitude, 89° 32' 18" longitude, Coordinate Method: Lat Long - DMS, Coordinate Datum: NAD83

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Robert Hicks	446 North Blvd L-NORT-3A Baton Rouge, LA 70802	2812973428 (WP)	Responsible Official for
	Rashid Johnson	639 Loyola Ave L-ENT-5E New Orleans, LA 70113	rjohn21@entergy.co	Emission Inventory Contact for
	Rashid Johnson	639 Loyola Ave L-ENT-5E New Orleans, LA 70113	5045764928 (WP)	Emission Inventory Contact for
	Don Lieman	1617 River Rd Westwego, LA 70094	Dliema@entergy.co	Emission Inventory Contact for
	Don Lieman	1617 River Rd Westwego, LA 70094	5044365990 (HP)	Emission Inventory Contact for

Related Organizations:	Name	Address	Phone (Type)	Relationship
	Entergy Louisiana LLC	1617 River Rd Westwego, LA 70094	5044365910 (WP)	Operates
	Entergy Louisiana LLC	1617 River Rd Westwego, LA 70094	5044365910 (WP)	Owns
	Entergy Louisiana LLC	1617 River Rd Westwego, LA 70094	5044365910 (WP)	Emission Inventory Billing Party
	Entergy Louisiana LLC	1617 River Rd Westwego, LA 70094	5044365910 (WP)	Air Billing Party for
	Entergy Louisiana LLC	1617 River Rd Westwego, LA 70094	5044365910 (WP)	Solid Waste Billing Party for
	Entergy Louisiana LLC	1617 River Rd Westwego, LA 70094	5044365910 (WP)	Water Billing Party for

NAIC Codes: 221112, Fossil Fuel Electric Power Generation

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-0775 or email your changes to facupdate@la.gov.

**INVENTORIES**

AI ID: 4604 - Entergy Louisiana LLC - Buras Generating Plant  
 Activity Number: PER20080001  
 Permit Number: 2240-00032-V1  
 Air - Title V Regular Permit Renewal

**Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Entire Facility</b>						
EQT 0001	C8 - Unit 8 Combustion Turbine - Natural Gas or No. 2 Fuel Oil Fired		373 MM BTU/hr	311 MM BTU/hr		8760 hr/yr
EQT 0003	T1 - Fuel Oil Storage Tank	92400 gallons	16724400 gallons/yr	16724400 gallons/yr	No. 2 Fuel Oil	8760 hr/yr

**Stack Information:**

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
<b>Entire Facility</b>							
EQT 0001	C8 - Unit 8 Combustion Turbine - Natural Gas or No. 2 Fuel Oil Fired	29.5	165000	10.9		43	1050

**Relationships:****Subject Item Groups:**

ID	Group Type	Group Description
SCN 0001	Alternate Operating Scenario	SCN1 - Unit 8 Combustion Turbine - Natural Gas Fired
SCN 0002	Alternate Operating Scenario	SCN2 - Unit 8 Combustion Turbine - No. 2 Fuel Oil Fired
UNF 0001	Unit or Facility Wide	- Entire Facility

**Group Membership:**

ID	Description	Member of Groups
EQT 0001	C8 - Unit 8 Combustion Turbine - Natural Gas or No. 2 Fuel Oil Fired	SCN000000000001, SCN000000000002

**NOTE:** The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

**Annual Maintenance Fee:**

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
1410	1410 B) Electric Power Gen. (0.7 percent S or Less in Fuel) (Rated Capacity)	19	MW

**SIC Codes:**

4911	Electric services	AI 4604
------	-------------------	---------

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 4604 - Entergy Louisiana LLC - Buras Generating Plant

Activity Number: PER20080001

Permit Number: 2240-00032-V1

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM 10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Entire Facility															
EQT 0001	25.61	30.73	112.18	239.71	287.65	1049.92	3.33	4.00	14.59	137.58	165.10	602.61	0.65	0.78	32.64
EQT 0003													0.018	0.018	0.08
T <sub>1</sub>															

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.



**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 4604 - Entergy Louisiana LLC - Buras Generating Plant

Activity Number: PER20080001

Permit Number: 2240-00032-V1

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0001 C8	1,3-Butadiene	0.004	0.005	0.019
	Acetaldehyde	0.012	0.015	0.050
	Acrolein	0.002	0.002	0.009
	Arsenic (and compounds)	0.003	0.004	0.013
	Benzene	0.015	0.018	0.070
	Beryllium (Table 51.1)	<0.001	<0.001	<0.001
	Cadmium (and compounds)	0.001	0.002	0.006
	Chromium VI (and compounds)	0.003	0.004	0.013
	Formaldehyde	0.221	0.265	0.970
	Lead compounds	0.004	0.005	0.020
	Manganese (and compounds)	0.215	0.258	0.940
	Mercury (and compounds)	<0.001	<0.001	0.001
	Naphthalene	0.010	0.011	0.040
	Nickel (and compounds)	0.001	0.002	0.005
	Polynuclear Aromatic Hydrocarbons	0.011	0.013	0.048
	Selenium (and compounds)	0.007	0.008	0.030
	Toluene	0.040	0.049	0.180
	Total suspended particulate	3.33	4.00	14.59
	Xylene (mixed isomers)	0.020	0.024	0.090
UNF 0001	1,3-Butadiene			0.019
	Acetaldehyde			0.050
	Acrolein			0.009
	Arsenic (and compounds)			0.013
	Benzene			0.070
	Beryllium (Table 51.1)			<0.001
	Cadmium (and compounds)			0.006
	Chromium VI (and compounds)			0.013
	Formaldehyde			0.970
	Lead compounds			0.020
	Manganese (and compounds)			0.940
	Mercury (and compounds)			0.001
	Naphthalene			0.040
	Nickel (and compounds)			0.005

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 4604 - Entergy Louisiana LLC - Buras Generating Plant

Activity Number: PER20080001

Permit Number: 2240-00032-V1

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0001	Polynuclear Aromatic Hydrocarbons			0.048
	Selenium (and compounds)			0.030
	Toluene			0.180
	Total suspended particulate			14.59
	Xylene (mixed isomers)			0.090

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

**SPECIFIC REQUIREMENTS****AI ID: 4604 - Entergy Louisiana LLC - Buras Generating Plant****Activity Number: PER20080001****Permit Number: 2240-00032-V1****Air - Title V Regular Permit Renewal****EQT 0001 C8 - Unit 8 Combustion Turbine - Natural Gas or No. 2 Fuel Oil Fired**

1 [LAC 33:III.1501.B]

Opacity  $\leq$  20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

2 [LAC 33:III.1511.C]

Opacity  $\leq$  20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

3 [LAC 33:III.501.C.6]

Operation of the turbine above 14.2 MW shall require retesting of the turbine to demonstrate compliance with the emission limitations of this permit. Should operation of the turbine exceed 14.2 MW for more than 4 hours, the facility shall perform a test in accordance with the performance test methods from the appropriate fuel alternate operating scenario within 60 days of the exceedance.

**SCN 0001 SCN1 - Unit 8 Combustion Turbine - Natural Gas Fired****Group Members: EQT 0001**

4 [LAC 33:III.507.H.1.a]

Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment. The test results summary shall include any necessary conversion into the units of any applicable Standard. (lbs/MMBtu, gr/dscf, lbs SO<sub>2</sub> / ton 100% H<sub>2</sub>SO<sub>4</sub>, Etc.) Plant and in house laboratory data to support production values shall be included. (Example: how many tons of 100% equivalent H<sub>2</sub>SO<sub>4</sub> was being produced) Units tested at less than 95% of permitted maximum capacity shall provide documentation to support compliance at 100% of the permitted maximum capacity.

5 [LAC 33:III.507.H.1.a]

Submit notification: Due at least 30 days prior to any LDEQ required performance/emissions test to the Office of Environmental Assessment, to provide the opportunity to conduct a pretest meeting and observe the emission testing.

6 [LAC 33:III.507.H.1.a]

Conduct a performance/emissions test per Specific Requirement No. 3: Due within five years, plus or minus 6 months, of when the previous performance test was performed, or within 180 days after the issuance of a permit renewal, whichever comes later. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 20 - Determination of Nitrogen Oxides. Diluent Emissions from Stationary Gas Turbines; and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

**SCN 0002 SCN2 - Unit 8 Combustion Turbine - No. 2 Fuel Oil Fired****Group Members: EQT 0001**

7 [LAC 33:III.1503.C]

Sulfur dioxide  $\leq$  2000 ppmv at standard conditions.  
Which Months: All Year Statistical Basis: Three-hour average

**SPECIFIC REQUIREMENTS**

AI ID: 4604 - Entergy Louisiana LLC - Buras Generating Plant

Activity Number: PER20080001

Permit Number: 2240-00032-V1

Air - Title V Regular Permit Renewal

**SCN 0002 SCN2 - Unit 8 Combustion Turbine - No. 2 Fuel Oil Fired**

- 8 [LAC 33:III.1513] Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate compliance with the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
- 9 [LAC 33:III.1513] Submit report. Due annually, by the 31st of March, in accordance with LAC 33:III.918. Report data required to demonstrate compliance with the provisions of LAC 33:III. Chapter 15.
- 10 [LAC 33:III.1513] Submit quarterly reports of three-hour excess emissions and prompt reports of emergency occurrences, in accordance with LAC 33:III.927.
- 11 [LAC 33:III.501.C.6] Do not burn any fuel which contains sulfur in excess of 0.5 percent by weight.
- 12 [LAC 33:III.507.H.1.a] Monitor and record the sulfur content of fuel being fired in the turbine supplied from the bulk storage tank. The values shall be determined on each occasion that fuel is transferred to the storage tank from any other source. If fuel supplier certification is used to demonstrate compliance, it shall include the name of the oil supplier and a statement that the oil does not contain sulfur in excess of 0.5 percent by weight.
- 13 [LAC 33:III.507.H.1.a] Submit report. Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment. The test results summary shall include any necessary conversion into the units of any applicable Standard (lbs/MMBtu, gr/dscf, lbs SO<sub>2</sub> / ton 100% H<sub>2</sub>SO<sub>4</sub>, Etc.) Plant and in house laboratory data to support production values shall be included. (Example: how many tons of 100% equivalent H<sub>2</sub>SO<sub>4</sub> was being produced) Units tested at less than 95% of permitted maximum capacity shall provide documentation to support compliance at 100% of the permitted maximum capacity.
- 14 [LAC 33:III.507.H.1.a] Submit notification: Due at least 30 days prior to any LDEQ required performance/emissions test to the Office of Environmental Assessment, to provide the opportunity to conduct a pretest meeting and observe the emission testing.
- 15 [LAC 33:III.507.H.1.a] Conduct a performance/emissions test per Specific Requirement No. 3: Due within five years, plus or minus 6 months, of when the previous performance test was performed, or within 180 days after the issuance of a permit renewal, whichever comes later, if annual operations under this scenario exceed 30 days of operations. The stack test's purpose is to demonstrate compliance with the emission limits of this permit when using fuel oil. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A. Method 20 - Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines, and Method 5 - Determination of Particulate Matter Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

**UNF 0001 - Entire Facility**

- 16 [40 CFR 60.] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
- 17 [40 CFR 61.145(b)(1)] Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]
- 18 [40 CFR 61.148] Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.
- 19 [40 CFR 61.] All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
- 20 [40 CFR 70.5(a)(1)(iii)] Submit Title V permit application for renewal: Due 6 months before permit expiration date. [40 CFR 70.5(a)(1)(iii)]

**SPECIFIC REQUIREMENTS**

AI ID: 4604 - Entergy Louisiana LLC - Buras Generating Plant

Activity Number: PER20080001

Permit Number: 2240-00032-V1

Air - Title V Regular Permit Renewal

**UNF 0001 - Entire Facility**

21 [40 CFR 70.6(a)(3)(iii)(A)]

Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]

22 [40 CFR 70.6(a)(3)(iii)(B)]

Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. [40 CFR 70.6(a)(3)(iii)(B)]

23 [40 CFR 70.6(c)(5)(iv)]

Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]

24 [LAC 33:III.1103]

Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.

25 [LAC 33:III.1109.B]

Outdoor burning of waste material or other combustible material is prohibited.

26 [LAC 33:III.1303.B]

Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.

27 [LAC 33:III.2113.A]

Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.

28 [LAC 33:III.219]

Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.

29 [LAC 33:III.2901.D]

Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.

30 [LAC 33:III.2901.F]

If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.

31 [LAC 33:III.507.G.5]

Alternate Operating Scenario: Operating plan recordkeeping by logbook upon each occurrence of making a change from one operating scenario to another. Record the operating scenario under which the facility is currently operating. Include in this record the identity of the sources involved, the permit number under which the scenario is included, and the date of change. Keep a copy of the log on site for at least two years. Activate the preplanned abatement strategy listed in LAC 33:III.5611 Table 5 when the administrative authority declares an Air Pollution Alert. Activate the preplanned strategy listed in LAC 33:III.5611 Table 6 when the administrative authority declares an Air Pollution Warning. Activate the preplanned abatement strategy listed in LAC 33:III.5611 Table 7 when the administrative authority declares an Air Pollution Emergency.

32 [LAC 33:III.5609.A.1.b]

33 [LAC 33:III.5609.A.2.b]

34 [LAC 33:III.5609.A.3.b]

**SPECIFIC REQUIREMENTS**

AI ID: 4604 - Entergy Louisiana LLC - Buras Generating Plant

Activity Number: PER20080001

Permit Number: 2240-00032-V1

Air - Title V Regular Permit Renewal

**UNF 0001 - Entire Facility**

35 [LAC 33:III.5609.A]

36 [LAC 33:III.919.D]

Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611, Tables 5, 6, and 7. Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.